

CONFIDENTIAL
INTER-OFFICE MEMORANDUM

To: [redacted]

August 1, 1961

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From: [redacted]

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cc: [redacted]

Re: [redacted]

Attached, find copy of report by [redacted]

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Reference is made to several items in this report.

1. [redacted] states that on all, except one battery, there was one or more burned intercell straps. Had we shorted these batteries accidentally, it would appear as though all intercell straps would have burned. The writer witnessed opening of these batteries and several of these intercell straps were badly burned between two cells only. This indicates that the short was internal and not external across all cells.

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2. Any moisture accumulating within the case proper would form a leakage path to the case since the interior sleeves are at least 3/8 of an inch shorter than [redacted] spec. This is obvious in the case of the end cell which made direct metallic contact with the outer case.

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3. The leakage may also have been aggravated by the sealing compound which, as indicated by [redacted] has possibly modified the electrolyte.

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4. [redacted] report apparently acknowledges the above mentioned defects in the batteries, however, concludes that direct short circuiting damaged the seals. It is also noted that humidity was the cause of the leakages which may get progressively worse.

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In view of the above, we are performing rather strenuous tests with these batteries before using them on our equipment. The battery is being discharged at a 3 ampere rate for ten minutes and then being recharged at its normal charging rate. This cycle is repeated approximately ten times.

We are also advising the customer to check the current flowing from either terminal to the case on a humid day to determine the leakage current. If this leakage current exceeds 1/2 Milliamp, we shall return these batteries to [redacted] since we must assume that the leakage path originates from the short interior sleeve. We are advised by [redacted] that leaking batteries will tend to get worse, and may become unusable.

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IG*dto [redacted]

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